## **PATENT COOPERATION TREATY**

## **PCT**

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty) (PCT Article 36 and Rule 70)

PEOID	0.0		
REO'D	ម ម	SEP	2005
WIPO		P	GT

Applicant's or agent's file reference R-63	FOR FURTHER ACTION		See Form PCT/IPEA/416					
International application No. International filing		/month/year)	Priority date (day/month/year)					
PCT/JP2004/010069	2004	08.07.2003						
International Patent Classification (IPC) o Int.Cl. 7 F28F9/22, F25B39/								
Applicant SHOWA DENKO K.K.	• •							
<ol> <li>This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</li> <li>This REPORT consists of a total of 3 sheets, including this cover sheet.</li> </ol>								
3. This report is also accompanied by		_						
a. a total of	sheets, as follows:							
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).  Sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.  b.   a total of (indicate type and number of electronic carrier(s))  containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).								
4. This report contains indications a	relating to the following ite	ms;						
Box No. I Basis of th	e report							
Box No. II Priority								
Box No. III Non-estab	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability							
Box No. IV Lack of un	Box No. IV Lack of unity of invention							
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
	· · · · · · · · · · · · · · · · · · ·							
	servations on the internation	-						
Date of submission of the demand		Data of completion	of this most					
•		Date of completion of this report						
24.01.200	5		26.08.2005					
Name and mailing address of the IPEA/	Name and mailing address of the IPEA/JP			3L 8610				
Japan Patent Office		YOICHI NAGASAKI						
3-4-3. Kasumigaseki, Chiyoda-ku, Tokyo 100-8915. Japan		Telephone No. +81-3-3581-1101 Fyt 3337						

### **Var-**

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/010069

Box No. I	Basis of the report			
otherwise	regard to the language, this report is based on the international application in the language in which it was filed, unless rwise indicated under this item.  This report is based on translations from the original language into the following language			
whi	ch is the language of a translation furnished fo	or the purposes of:		
	international search (under Rules 12.3 and 23.1			
	publication of the international application (un	•		
ı	international preliminary examination (under R	Kules 33.2 and/or 33.3)		
furnished		ation, this report is based on (replacement sheets which have been ion under Article 14 are referred to in this report as "originally filed"		
<b>▼</b> the	international application as originally filed/fur	nished		
T the	description:			
pag		as originally filed/furnished		
pag		received by this Authority on		
pag		• • • • • • • •		
T the	claims:			
pag	es	as originally filed/furnished		
pag	ges*	as amended (together with any statement) under Article 19		
	ges*	received by this Authority on		
pag	ges*	received by this Authority on		
T the	drawings:			
pag	ges			
· pag	ges*	received by this Authority on		
pag	ges*	received by this Authority on		
☐ as	sequence listing and/or any related table(s) - see	e Supplemental Box Relating to Sequence Listing.		
3. <b>T</b>	e amendments have resulted in the cancellation	of:		
Г	the description, pages			
Г	the claims Nos			
· 	the drawings, sheets/figs			
·	the sequence listing (specify)			
	any table(s) related to sequence listing (sp	ecify):		
ma	This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Bo (Rule 70.2(c)).			
Γ	the description, pages			
Г	the claims Nos			
Г	' al desiring about			
· -				
	any table(s) related to sequence listing (sp.	:		
* If itom 4 =	applies, some or all of those sheets may be marked			
<i>ગુ ઘણા 4 વ</i>	gypnes, some or an of mose sneets may be market	superseueu.		

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/JP2004/010069

Box No. V Reasoned statement under Article 3 citations and explanations supporti		35(2) with regard to novelty, inventive s ng such statement	step or industrial applicability;		
.1.	Statement	ı			
	Nov	elty (N)	Claims		YES
			Claims	1-31	МО
	Inve	ntive step (IS)	Claims		YES
			Claims	1-31	NO
	Indu	strial applicability (IA)	Claims	1-31	YES
			Claims		NO

- 2. Citations and explanations(Rule 70.7)
- 1) The following documents have been considered for the purpose of this report:
- D1: JP 2003-75024 A (SHOWA DENKO K.K.)2003.03.12
- 2) The subject matter of claim 1-31 does not appear to be novel and does not involve an inventive step.
- D1 discloses a heat exchanger comprising a refrigerant inlet-outlet tank 10, and a refrigerant turn tank 50 arranged as spaced apart from each other.

The refrigerant turn tank 50 being provided with a uniformalizing member 71, which has refrigerant passing holes.

The refrigerant inlet-outlet tank 10 provided with a divided resistance plate 40, 42, which has refrigerant passing holes.